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(21)Application number : **11-290142** (71)Applicant : **NIPPON SHOKUBAI CO LTD**  
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### (54) PRODUCTION OF WATER-SOLUBLE ELECTROCONDUCTIVE POLYANILINE

#### (57)Abstract:

PROBLEM TO BE SOLVED: To provide a method for producing a water-soluble electroconductive polyaniline or a derivative thereof.

SOLUTION: This method comprises the following process: polyaniline or a derivative thereof is first sulfonated using a sulfonating agent, wherein the polyaniline or derivative thereof is dispersed in a reaction solvent to suppress flocculate formation due to substantial flocculation, the reaction solvent is preferably inert to the sulfonating agent, the initial agitation power for the sulfonation is pref.  $\geq 0.03$  kW/m<sup>3</sup>, and the water content of the polyaniline or derivative thereof is pref.  $\leq$  wt.%, and subsequently, the polyaniline or derivative thereof thus sulfonated is hydrolyzed in a mixed solution of water and a hydrophilic organic solvent (pref. an alcohol). The aqueous solution of the resultant water-soluble electroconductive polyaniline or the like thus obtained which is capable of forming a thin film by a simple means such as spin coating, dip coating or bar coating, can be used in various antistatic applications, nonlinear optical materials, or the like.

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